

CLAIMS

1. A non-human animal non-responsive to endotoxin wherein a part or a whole of TRIF-related adaptor molecule (TRAM) genes on its chromosome is deleted, a function of expressing TRAM which is expressed in a wild-type is lacked, and responsiveness to a ligand recognized by TLR4 is specifically impaired.
2. The non-human animal non-responsive to endotoxin according to claim 1, which is responsive to PGN, R-848 and CpG ODN, and non-responsive to LPS.
3. The non-human animal non-responsive to endotoxin according to claim 1 or 2 wherein the non-human animal is a mouse.
4. A method for screening a substance promoting or suppressing a response to a ligand recognized by TLR4, wherein the response to the ligand recognized by TLR4 in a immunocyte derived from the non-human animal non-responsive to endotoxin according to any one of claims 1 to 3 is measured/estimated, with the use of the immunocyte, a test substance and the ligand recognized by TLR4.
5. A method for screening a substance promoting or suppressing a response to a ligand recognized by TLR4, wherein the response to the ligand recognized by TLR4 in the non-human animal according to any one of claims 1 to 3 is measured/estimated, with the use of the non-human animal, a test substance and the ligand recognized by TLR4.